

TENNESSEE

Science and Engineering Profile

	Tennessee	U.S.	Rank		Tennessee	U.S.	Rank
Doctoral scientists, 1993	7,145	430,332	20	Total R&D performance, 1993 (millions)	\$1,214	\$161,427	27
Doctoral engineers, 1993	1,382	81,293	17	Industry R&D, 1993 (millions)	\$792	\$117,622	26
S&E doctorates awarded, 1993	330	25,409	24	Academic R&D, 1993 (millions)	\$278	\$19,489	25
of which, in life sciences	29%	24%		of which, in life sciences	59%	55%	
in engineering	26%	22%		in engineering	18%	16%	
in psychology	19%	13%		in physical sciences	8%	11%	
S&E postdoctorates, 1993				Higher education current-fund			
in doctorate-granting institutions	549	34,394	21	expenditures, 1993 (millions)	\$3,002	\$163,994	19
S&E graduate students, 1993				Number of SBIR awards, 1990-93	136	13,995	24
in doctorate-granting institutions	7,067	438,128	20	Patents issued to state residents, 1994	591	56,039	23
Population, 1994 (000s)	5,175	260,341	17	Gross state product, 1992 (billions)	\$108.9	\$5,994.1	20
Civilian labor force, 1994 (000s)	2,665	131,013	19	of which, agriculture	2%	2%	
Personal income per capita, 1994	\$19,482	\$21,809	37	manufacturing, mining, construction	28%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures 1994 (millions)	\$25,056	\$1,284,896	17	wholesale and retail trade	18%	16%	
R&D obligations 1993 (millions)	\$674	\$65,394	21	finance, insurance, real estate	14%	18%	
				services	18%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Federal Obligations for Research and Development in Tennessee by Agency and Performer: Fiscal Year 1993

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
Total, all agencies	674,420	86,547	328,167	51,224	160,733	45,574	2,175	21
Department of Agriculture	8,909	295	0	0	8,492	52	70	39
Department of Commerce	3,015	2,963	16	0	0	0	36	26
Department of Defense	120,217	68,424	25,556	13,322	10,841	2,074	0	27
Department of Energy	343,567	6,663	296,137	28,765	12,002	0	0	6
Dept. of Health & Human Services	134,057	382	1,632	599	111,449	19,565	430	20
Department of the Interior	5,361	3,949	0	180	1,192	0	40	36
Department of Transportation	6,839	51	4,373	0	816	0	1,599	19
Environmental Protection Agency	1,176	0	0	697	479	0	0	32
Nat'l Aeronautics & Space Admin.	39,779	3,669	0	7,561	4,761	23,788	0	14
National Science Foundation	11,500	151	453	100	10,701	95	0	31
State rank	21	25	5	29	22	13	31	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.